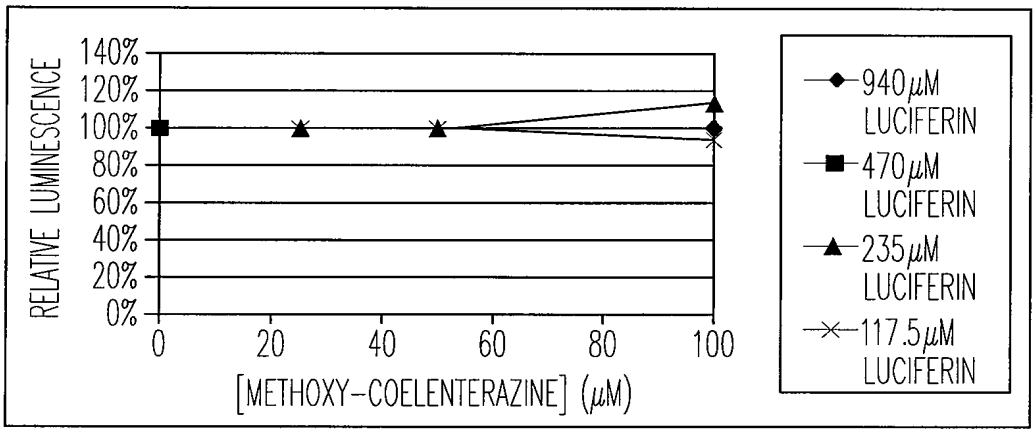
RELATIVE LUMINESCENCE
140%
120%
100%
80%
60%
40%
20%
0%
0
20
40
60
80
100
[METHOXY-COELENTERAZINE] (μM)
940μM LUCIFERIN
470μM LUCIFERIN
235μM LUCIFERIN
117.5μM LUCIFERIN

Fig.1

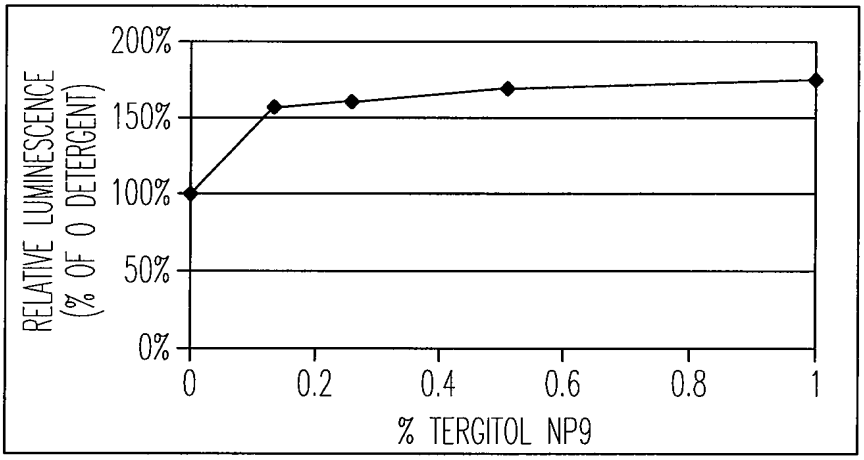
RELATIVE LUMINESCENCE (% OF 0 DETERGENT)
200%
150%
100%
50%
0%
0
0.2
0.4
0.6
0.8
1
% TERGITOL NP9

Fig.2

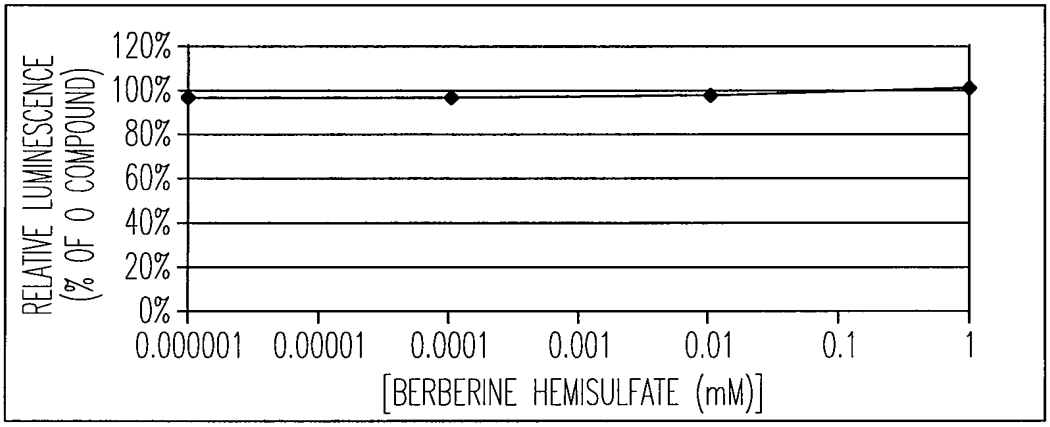
RELATIVE LUMINESCENCE (% OF 0 COMPOUND)
120%
100%
80%
60%
40%
20%
0%
0.000001
0.00001
0.0001
0.001
0.01
0.1
1
[BERBERINE HEMISULFATE (mM)]

Fig.3

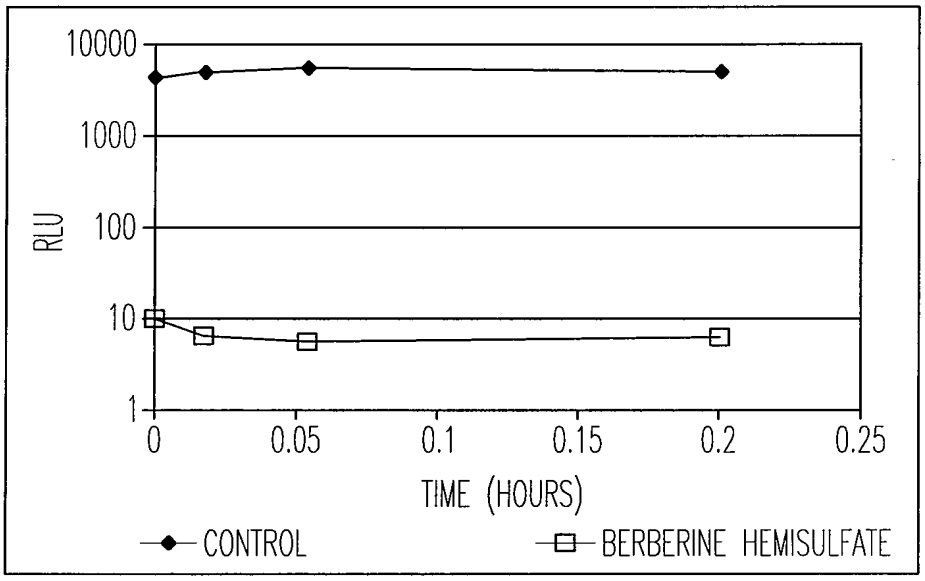
RLU
10000
1000
100
10
1
0
0.05
0.1
0.15
0.2
0.25
TIME (HOURS)
CONTROL
BERBERINE HEMISULFATE

Fig.4

NON-IONIC DETERGENTS						
DETERGENT NAME	PURITY	MW (MONOMER)	CMC (mM)	CMC CONDITIONS	AGGREG-ATION #	MW (MICELLE)
APO-10	M	218.3	4.6	50 mM Na^+	131	28,597
APO-12	M	246.4	0.568	50 mM Na^+	2232	549,965
BRIJ-35 ($C_{12}E_{23}$)	M	1200 (AVG)	0.09	50 mM Na^+	40	
C_8E_6	M		9.9	25°C	32	13,000
$C_{10}E_6$	M	427.1	0.9	50 mM Na^+	40	17,084
$C_{10}E_8$	M	515.1				
$C_{12}E_6$	M	451.1	0.087	50 mM Na^+		
$C_{12}E_8$ (ATLAS G2127)	M	539.1	0.11	50 mM Na^+	123	66,309
$C_{12}E_9$	M	583.1	0.08	50 mM Na^+		
$C_{12}E_{10}$ (BRIJ 36T)	M		0.2			
$C_{16}E_{12}$	M		0.0023	25°C	152	117,000
$C_{16}E_{21}$	M		0.0039	25°C	70	82,000
CYCLOHEXYL-n-ETHYL-β-D-MALTOSIDE	M	452.5	120	50 mM Na^+		
CYCLOHEXYL-n-HEXYL-β-D-MALTOSIDE	M	508.6	0.56	50 mM Na^+		
CYCLOHEXYL-n-METHYL-β-D-MALTOSIDE	M	438.5	340	50 mM Na^+		
n-DECANOYLSUCROSE	M	496.6	2.5	50 mM Na^+		
n-DECYL-β-D-GLUCOPYRANOSIDE	M	320.4	2.2	50 mM Na^+		
n-DECYL-β-D-MALTOPYRANOSIDE	M	482.6	1.6	50 mM Na^+		

Fig.5A (PRIOR ART)

n-DECYL-β-D-THIOMALTOSIDE	M	498.6	0.9	50 mM Na^+		
DIGITONIN	M	1229.3			60	70,000
n-DODECANOYL SUCROSE	M	524.6	0.3	50 mM Na^+		
n-DODECYL-β-D-GLUCOPYRANOSIDE	M	348.5	0.13	50 mM Na^+		70,000
n-DODECYL-β-D-MALTOSIDE	M	348.5	0.15	50 mM Na^+	98	70,000
GENAPOL C-100	P	627 (AVG)				50,000
GENAPOL X-80	P	553 (AVG)	0.06-0.15	50 mM Na^+		
GENAPOL X-100	P	641 (AVG)	0.15	50 mM Na^+	88	56,000
HECAMEG	M	335.4	19.5	50 mM Na^+		
HEPTANE-1,2,3-TRIOL	M	148.2				
n-HEPTYL-β-D-GLUCOPYRANOSIDE	M	278.3	79	50 mM Na^+		
n-HEPTYL-β-D-THIOGLUCOPYRANOSIDE	M	294.3	30	50 mM Na^+		
LUBROL PX	P	582	0.006	50 mM Na^+	110	64,000
MEGA-8 (OCATANOYL-N-METHYLGLUCAMIDE)	M	321.5	58	50 mM Na^+		
MEGA-9 (NONANOYL-N-METHYLGLUCAMIDE)	M	335.5	19-25	50 mM Na^+		
MEGA-10 (DECANOYL-N-METHYLGLUCAMIDE)	M	349.5	6-7	50 mM Na^+		
n-NONYL-β-D-GLUCOPYRANOSIDE	M	306.4	6.5	50 mM Na^+		
NONIDET P-10 (NP-10)	P					

Fig.5B (PRIOR ART)

NONIDET P-40 (NP-40)	M	603.0	0.05-0.3	50 mM Na^+	100-155	
n-OCTANOYL-β-D-GLUCOSLYAMINE (NOGA)	M	305.4	80	50 mM Na^+		
n-OCTANOYL SUCROSE	M	468.5	24.4	50 mM Na^+		
n-OCTYL-alpha-D-GLUCOPYRANOSIDE	M	292.4	20			
n-OCTYL-β-D-GLUCOPYRANOSIDE	M	292.4	25	50 mM Na^+	27	7,895
n-OCTYL-β-D-MALTOPYRANOSIDE	M	454.5	23.4	50 mM Na^+		
PLURONIC F-68	P	8400 (AVG)				
PLURONIC F-127	P	12,600 (AVG)				
THESIT		583	0.1	50 mM Na^+		
TRITON X-100 (TERT-C_8-ϕ-$E_{9.6}$; LIKE NP-40)	P	650 (AVG)	0.3	50 mM Na^+	140	90,000
TRITON X-100 HYDROGENATED	P	631 (AVG)	0.25	50 mM Na^+		
TRITON X-114 (TERT-C_8-ϕ-E_{7-8})	P	537 (AVG)	0.35	50 mM Na^+		
TWEEN 20 (C_{12}-SORBITAN-E_{20}; POLYSORBATE 20)	P	1228 (AVG)	0.059	50 mM Na^+		
TWEEN 40 (C_{16}-SORBITAN-E_{20})	P		0.027			
TWEEN 60 (C_{18}-SORBITAN-E_{20})	P		0.025			
TWEEN 80 ($C_{18:1}$-SORBITAN-E_{20})	P	1310 (AVG)	0.012	50 mM Na^+	58	75,980
n-UNDECYL-β-D-MALTOSIDE	M	496.6	0.59	50 mM Na^+		

Fig.5C (PRIOR ART)

IONIC DETERGENTS						
DETERGENT NAME	PURITY ‡	MW (MONOMER)	CMC (mM) §	CMC CONDITIONS	AGGREG-ATION #	MW (MICELLE)
CAPRYLIC ACID, Na^+ SALT (n-OCTANOATE)	M	166.2	351			
CETYLPYRIDINIUM CHLORIDE	M	274.0	0.90			
CTAB (CETYLTRIMETHYL-AMMONIUM BROMIDE)	M	364.5	1.0	50 mM Na^+	170	62,000
CHOLIC ACID, Na^+ SALT	M	430.6	4	50 mM Na^+	3	1200
DECANESULFONIC ACID, Na^+ SALT	M	244.3	32.6			
DEOXYCHOLIC ACID, Na^+ SALT (DOC)	M	414.6	1.5	50 mM Na^+	5	2000
DIGITONIN	P	1229	0.087		60	70,000
DODECYLTRIMETHYL-AMMONIUM BROMIDE	M	308.4	14			
GLYCOCHOLIC ACID, Na^+ SALT	M	487.6	7.1	50 mM Na^+	2.1	1000
GLYCODEOXYCHOLIC-ACID, Na^+ SALT	M	471.6	2.1	50 mM Na^+	2.1	1000
LAUROYLSARCOSINE, Na^+ SALT (SARKOSYL)	M	293.4			2	900
LITHIUM-n-DODECYL SULFATE	M	272.3	6-8	50 mM Na^+		
LYSOPHOSPHATIDYL-CHOLINE (16:0)	M	495.7	0.007		186	92,000
SODIUM n-DODECYL SULFATE (SDS, LAURYL SULFATE, Na^+ SALT)	M	288.5	2.30	50 mM Na^+	84	24,200

Fig.5D (PRIOR ART)

TAUROCHENODEOXY-CHOLIC ACID, Na^+ SALT	M	521.7				
TAUROCHOLIC ACID, Na^+ SALT	M	537.7	3.3	20 mM Na^+	4	2150
TAURODEHYDROCHOLIC ACID, Na^+ SALT	M	531.6				
TAURODEOXYCHOLIC ACID, Na^+ SALT	M	521.7	2.7	50 mM Na^+	8	4200
TAUROLITHOCHOLIC ACID, Na^+ SALT	M	505.7				
TAUROURSODEOXY-CHOLIC ACID	M	521.7				
TETRADECYLTRIMETHYL-AMMONIUM BROMIDE (TDTAB)	M	336.4	3.5	30°C	81	27,000
TOPPS	M	350.5	4.5	50 mM Na^+		

Fig.5E (PRIOR ART)

ZWITTERIONIC DETERGENTS						
DETERGENT NAME	PURITY	MW (MONOMER)	CMC (MM)	CMC CONDITIONS	AGGREG-ATION #	MW (MICELLE)
BIGCHAP	M	878.1	3.4	50 mM Na^+	10	8800
CHAPS	M	614.9	6-10	50 mM Na^+	10	6150
CHAPSO	M	630.9	8	50 mM Na^+	11	9960
DDMAU	M	397.7	0.13	50 mM Na^+		
EMPIGEN BB (N-DODECYL-N,N-DIMETHYLGLYCINE)	M	272.0	1.6-2.1	50 mM Na^+		
LAURYLDIMETHYLAMINE OXIDE (LADAO, LDAO, EMPIGEN OB)	M	229.4	1-3	50 mM Na^+	76	17,000
ZWITTERGENT 3-08	M	279.6	330	50 mM Na^+		
ZWITTERGENT 3-10	M	307.6	25-40	50 mM Na^+	41	12,600
ZWITTERGENT 3-12 (3-DODECYL-DIMETHYLAMMONIO-PROPANE-1-SULFONATE)	M	335.6	2-4	50 mM Na^+	55	18,500
ZWITTERGENT 3-14	M	363.6	0.1-0.4	50 mM Na^+	83	30,200
ZWITTERGENT 3-16	M	391.6	0.01-0.06	50 mM Na^+	155	60,700

Fig.5F (PRIOR ART)